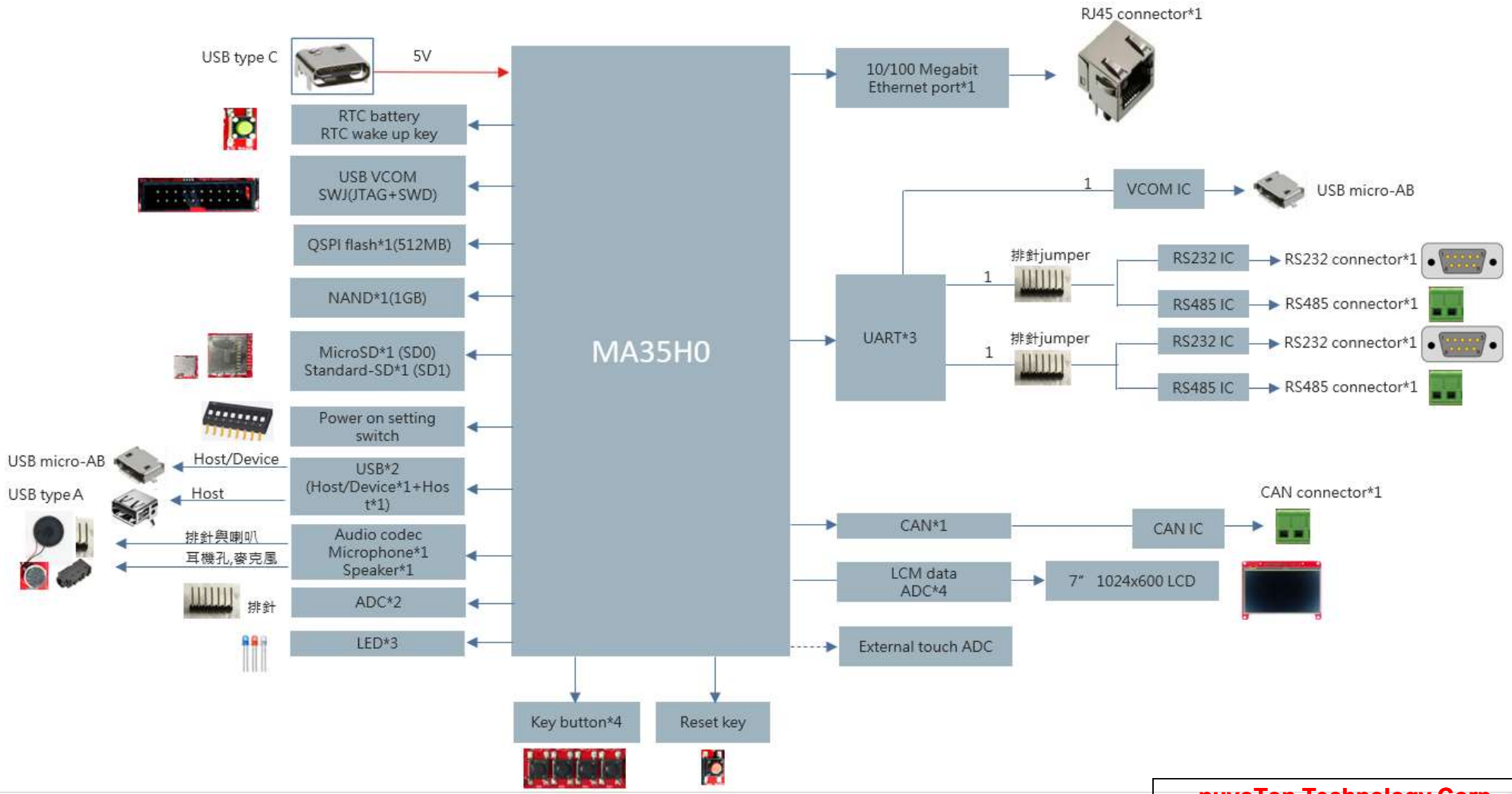
nuvoton
NuMaker-HMI-MA35H04F70 V1.0

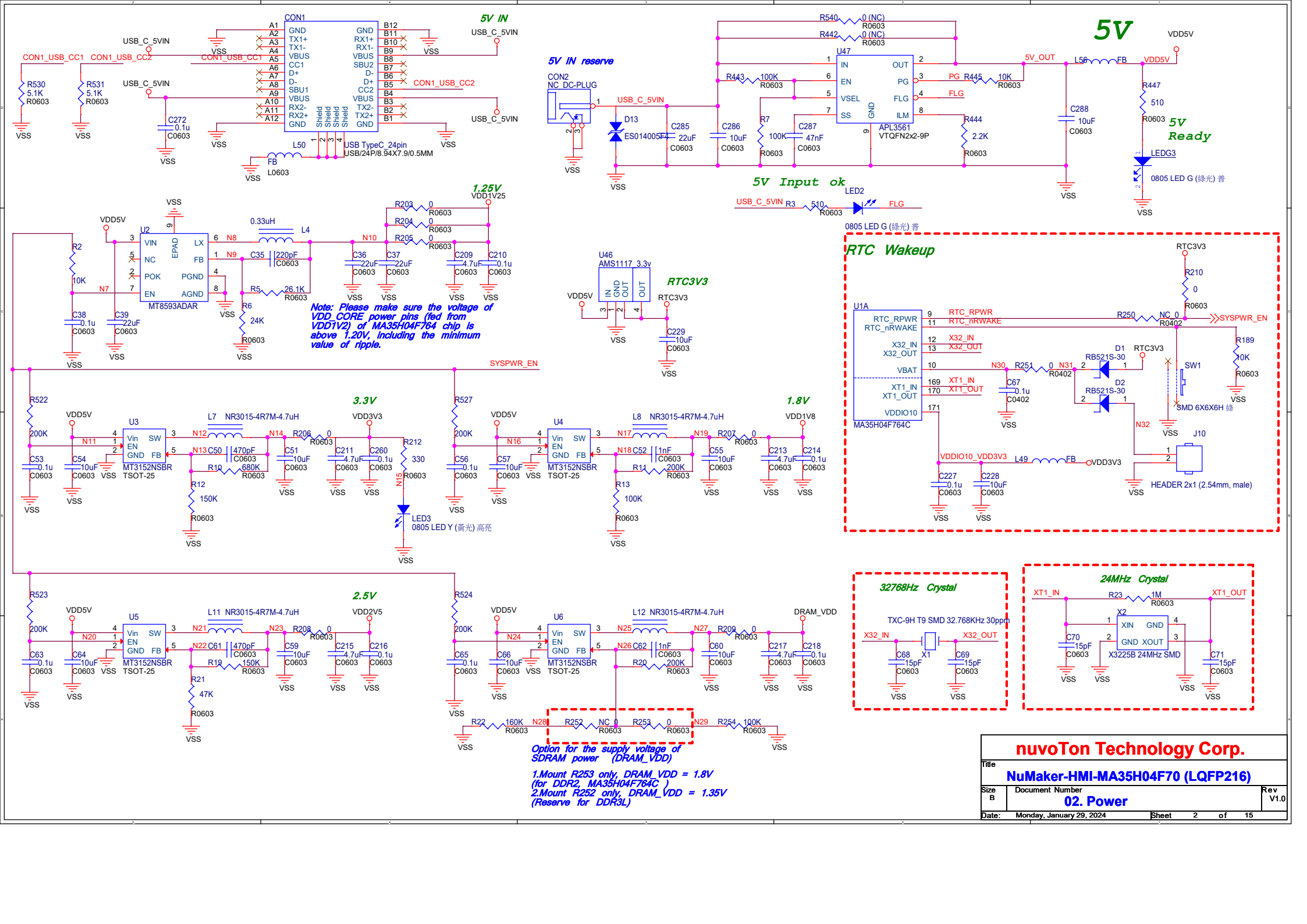
www.nuvoton.com/products/gui-solution/gui-platform/numaker-hmi-ma35h0-a1
Order No. NK-HMIMA35H0

MA35H0 Block diagram



nuvoTon Technology Corp.

Title	NuMaker-HMI-MA35H04F70 (LQFP216)	
Size B	Document Number 01. System Block	Rev V1.0
Date: Monday, January 29, 2024	Sheet 1 of 15	


5V IN
CON1
USB_C_5VIN
CON1_USB_CC1
CON1_USB_CC2
R530 5.1K R0603
R531 5.1K R0603
C272 0.1u C0603
USB TypeC_24pin
USB/24P/8.94X7.9/0.5MM
L50 FB L0603
5V IN reserve
CON2 NC_DC-PLUG
D13 ES014005F4
C285 22uF C0603
C286 10uF C0603
R7 100K R0603
C287 47nF C0603
U47 APL3561 VTQFN2x2-9P
R540 0 (NC) R0603
R442 0 (NC) R0603
R443 100K R0603
R444 2.2K R0603
R445 10K R0603
5V_OUT
L56 FB
5V
VDD5V
C288 10uF C0603
R447 510 R0603
5V Ready
LEDG3
0805 LED G (綠光) 普
5V Input ok
LED2
R3 510 R0603
FLG
1.25V
VDD1V25
U2 MT8593ADAR
R2 10K
C38 0.1u C0603
C39 22uF C0603
0.33uH L4
C35 220pF C0603
R5 26.1K R0603
R6 24K R0603
R203 0 R0603
R204 0 R0603
R205 0 R0603
C36 22uF C0603
C37 22uF C0603
C209 4.7uF C0603
C210 0.1u C0603
Note: Please make sure the voltage of VDD_CORE power pins (fed from VDD1V2) of MA35H04F764 chip is above 1.20V, including the minimum value of ripple.
U46 AMS1117_3.3v
RTC3V3
C229 10uF C0603
SYSPWR_EN
3.3V
U3 MT3152NSBR TSOT-25
L7 NR3015-4R7M-4.7uH
R522 200K
C53 0.1u C0603
C54 10uF C0603
R10 680K R0603
R12 150K R0603
C50 470pF C0603
C51 10uF C0603
C211 4.7uF C0603
C260 0.1u C0603
R212 330 R0603
LED3
0805 LED Y (黃光) 高亮
1.8V
VDD1V8
U4 MT3152NSBR TSOT-25
L8 NR3015-4R7M-4.7uH
R527 200K
C56 0.1u C0603
C57 10uF C0603
R11 200K R0603
R13 100K R0603
C52 1nF C0603
C55 10uF C0603
C213 4.7uF C0603
C214 0.1u C0603
RTC Wakeup
U1A MA35H04F764C
RTC_RPWR
RTC_nRWAKE
X32_IN
X32_OUT
VBAT
XT1_IN
XT1_OUT
VDDIO10
R210 0 R0603
R250 NC_0 R0402
SYSPWR_EN
R189 10K R0603
D1 RB521S-30
D2 RB521S-30
SW1
SMD 6X6X6H 綠
C67 0.1u C0402
R251 0 R0402
J10
HEADER 2x1 (2.54mm, male)
VDDIO10_VDD3V3
L49 FB
VDD3V3
C227 0.1u C0603
C228 10uF C0603
2.5V
VDD2V5
U5 MT3152NSBR TSOT-25
L11 NR3015-4R7M-4.7uH
R523 200K
C63 0.1u C0603
C64 10uF C0603
R18 150K R0603
R21 47K R0603
C61 470pF C0603
C59 10uF C0603
C215 4.7uF C0603
C216 0.1u C0603
U6 MT3152NSBR TSOT-25
L12 NR3015-4R7M-4.7uH
DRAM_VDD
R524 200K
C65 0.1u C0603
C66 10uF C0603
R20 200K R0603
C62 1nF C0603
C60 10uF C0603
C217 4.7uF C0603
C218 0.1u C0603
R22 160K R0603
R252 NC_0 R0603
R253 0 R0603
R254 100K R0603
Option for the supply voltage of SDRAM power (DRAM_VDD)
1.Mount R253 only, DRAM_VDD = 1.8V (for DDR2, MA35H04F764C)
2.Mount R252 only, DRAM_VDD = 1.35V (Reserve for DDR3L)
32768Hz Crystal
TXC-9H T9 SMD 32.768KHz 30ppm
X32_IN
X32_OUT
C68 15pF C0603
C69 15pF C0603
X1
24MHz Crystal
XT1_IN
XT1_OUT
R23 1M R0603
X2
X3225B 24MHz SMD
C70 15pF C0603
C71 15pF C0603
nuvoTon Technology Corp.
Title
NuMaker-HMI-MA35H04F70 (LQFP216)
Size B
Document Number
02. Power
Rev V1.0
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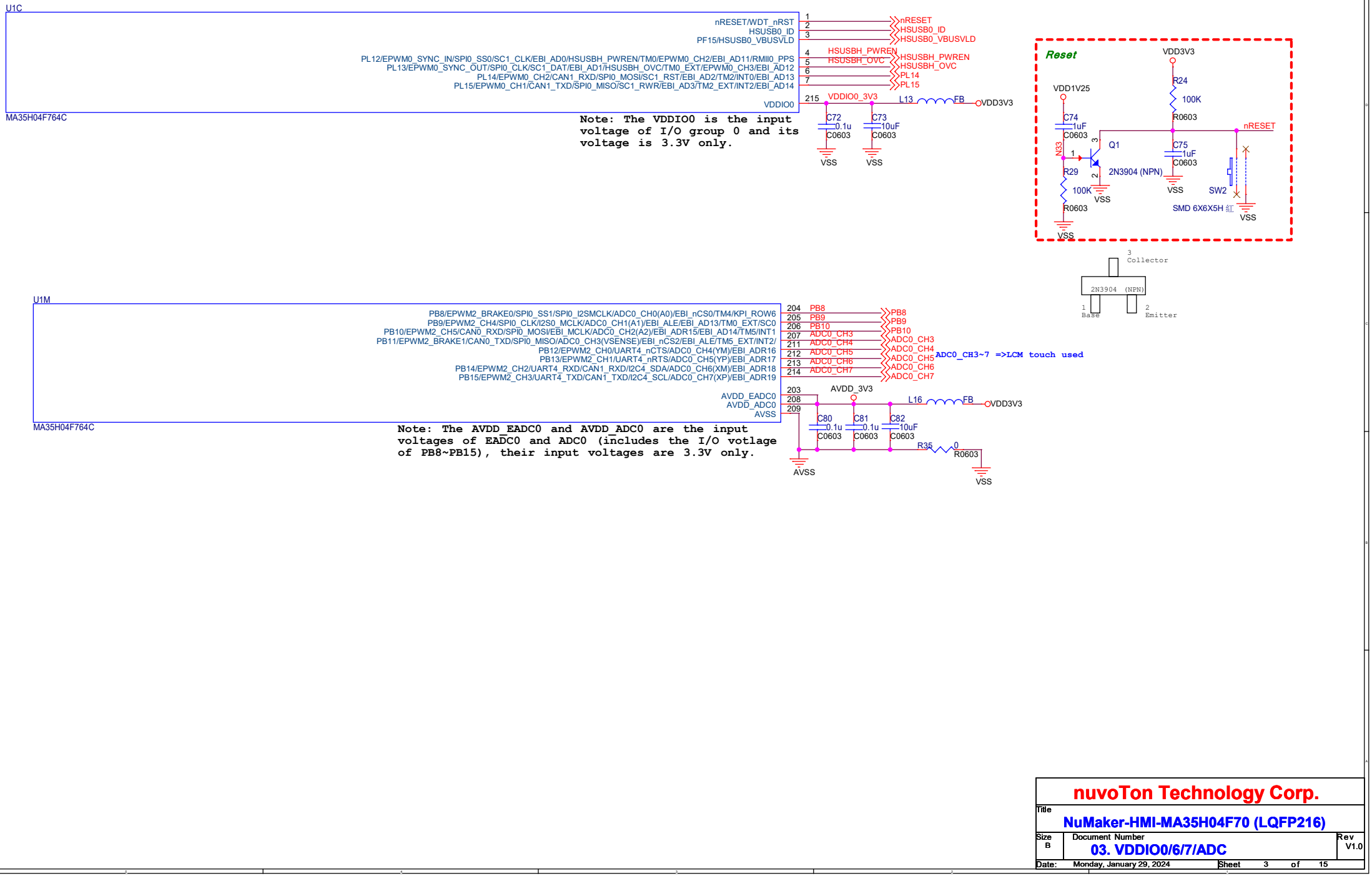
U1C
nRESET/WDT_nRST
HSUSB0_ID
PF15/HSUSB0_VBUSVLD
PL12/EPWM0_SYNC_IN/SPI0_SS0/SC1_CLK/EBI_AD0/HSUSBH_PWREN/TM0/EPWM0_CH2/EBI_AD11/RMII0_PPS
PL13/EPWM0_SYNC_OUT/SPI0_CLK/SC1_DAT/EBI_AD1/HSUSBH_OVC/TM0_EXT/EPWM0_CH3/EBI_AD12
PL14/EPWM0_CH2/CAN1_RXD/SPI0_MOSI/SC1_RST/EBI_AD2/TM2/INT0/EBI_AD13
PL15/EPWM0_CH1/CAN1_TXD/SPI0_MISO/SC1_RWR/EBI_AD3/TM2_EXT/INT2/EBI_AD14
VDDIO0
MA35H04F764C
1
2
3
4
5
6
7
215
nRESET
HSUSB0_ID
HSUSB0_VBUSVLD
HSUSBH_PWREN
HSUSBH_OVC
HSUSBH_PWREN
HSUSBH_OVC
PL14
PL15
VDDIO0_3V3
L13
FB
VDD3V3
C72
0.1u
C0603
C73
10uF
C0603
VSS
VSS
Note: The VDDIO0 is the input voltage of I/O group 0 and its voltage is 3.3V only.
Reset
VDD3V3
VDD1V25
R24
100K
R0603
C74
1uF
C0603
N33
Q1
1
3
2
R29
100K
R0603
2N3904 (NPN)
VSS
VSS
C75
1uF
C0603
nRESET
SW2
SMD 6X6X5H 紅
VSS
VSS
3
Collector
2N3904 (NPN)
1
Base
2
Emitter
U1M
PB8/EPWM2_BRAKE0/SPI0_SS1/SPI0_I2SMCLK/ADC0_CH0(A0)/EBI_nCS0/TM4/KPI_ROW6
PB9/EPWM2_CH4/SPI0_CLK/I2S0_MCLK/ADC0_CH1(A1)/EBI_ALE/EBI_AD13/TM0_EXT/SC0
PB10/EPWM2_CH5/CAN0_RXD/SPI0_MOSI/EBI_MCLK/ADC0_CH2(A2)/EBI_ADR15/EBI_AD14/TM5/INT1
PB11/EPWM2_BRAKE1/CAN0_TXD/SPI0_MISO/ADC0_CH3(VSENSE)/EBI_nCS2/EBI_ALE/TM5_EXT/INT2/
PB12/EPWM2_CH0/UART4_nCTS/ADC0_CH4(YM)/EBI_ADR16
PB13/EPWM2_CH1/UART4_nRTS/ADC0_CH5(YP)/EBI_ADR17
PB14/EPWM2_CH2/UART4_RXD/CAN1_RXD/I2C4_SDA/ADC0_CH6(XM)/EBI_ADR18
PB15/EPWM2_CH3/UART4_TXD/CAN1_TXD/I2C4_SCL/ADC0_CH7(XP)/EBI_ADR19
AVDD_EADC0
AVDD_ADC0
AVSS
MA35H04F764C
204
205
206
207
211
212
213
214
PB8
PB9
PB10
ADC0_CH3
ADC0_CH4
ADC0_CH5
ADC0_CH6
ADC0_CH7
PB8
PB9
PB10
ADC0_CH3
ADC0_CH4
ADC0_CH5
ADC0_CH6
ADC0_CH7
ADC0_CH3~7 =>LCM touch used
203
208
209
AVDD_3V3
L16
FB
VDD3V3
C80
0.1u
C0603
C81
0.1u
C0603
C82
10uF
C0603
R35
0
R0603
AVSS
VSS
Note: The AVDD_EADC0 and AVDD_ADC0 are the input voltages of EADC0 and ADC0 (includes the I/O votlage of PB8~PB15), their input voltages are 3.3V only.
nuvoTon Technology Corp.
Title
NuMaker-HMI-MA35H04F70 (LQFP216)
Size
B
Document Number
03. VDDIO0/6/7/ADC
Rev
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U1D

PA0/UART16_RXD/NAND_DATA0/EBI_AD0/EBI_ADR0
PA1/UART16_TXD/NAND_DATA1/EBI_AD1/EBI_ADR1
PA2/NAND_DATA2/EBI_AD2/EBI_ADR2
PA3/NAND_DATA3/EBI_AD3/EBI_ADR3
PA4/NAND_DATA4/EBI_AD4/EBI_ADR4
PA5/NAND_DATA5/EBI_AD5/EBI_ADR5
PA6/NAND_DATA6/EBI_AD6/EBI_ADR6
PA7/NAND_DATA7/EBI_AD7/EBI_ADR7
PA8/UART5_nCTS/UART4_RXD/NAND_RDY0/EBI_AD8/EBI_ADR8
PA9/UART5_nRTS/UART4_TXD/NAND_nRE/EBI_AD9/EBI_ADR9
PA10/UART5_RXD/NAND_nWE/EBI_AD10/EBI_ADR10
PA11/UART5_TXD/NAND_CLE/EBI_AD11/EBI_ADR11
PA12/NAND_ALE/EBI_AD12/EBI_ADR12
PA13/NAND_nCS0/EBI_AD13/EBI_ADR13
PA14/NAND_nWP/EBI_AD14/EBI_ADR14

24 NAND_DATA0
25 NAND_DATA1
26 NAND_DATA2
27 NAND_DATA3
28 NAND_DATA4
29 NAND_DATA5
30 NAND_DATA6
31 NAND_DATA7
32 NAND_RDY
33 NAND_nRE
34 NAND_nWE
35 NAND_CLE
36 NAND_ALE
37 NAND_nCS
39 NAND_nWP

PG0/EPWM0_CH0/SPI0_SS0/EADC0_ST/EBI_AD15/TM1/CLKO/INT0/EBI_ADR15/PowerOnSetting
PA15/EPWM0_CH2/UART9_nCTS/UART6_RXD/I2C4_SDA/EBI_ALE/TM1/RMII0_PPS
PG1/EPWM0_CH3/UART9_nRTS/UART6_TXD/I2C4_SCL/EBI_nCS0/TM1_EXT/PowerOnSetting
PG2/EPWM0_CH4/UART9_RXD/CAN0_RXD/SPI0_SS1/EBI_ADR16/EBI_nCS2/TM3/INT1/PowerOnSetting
PG3/EPWM0_CH5/UART9_TXD/CAN0_TXD/SPI0_I2SMCLK/EBI_ADR17/EBI_nCS1/EBI_MCLK/TM3_EXT/PowerOnSetting
PG4/EPWM1_CH0/UART5_nCTS/UART6_RXD/EBI_ADR18/EBI_nCS0/SC1_CLK/TM4/INT2/PowerOnSetting
PG5/EPWM1_CH1/UART5_nRTS/UART6_TXD/EBI_ADR19/EBI_ALE/SC1_DAT/TM4_EXT/PowerOnSetting
PG6/EPWM1_CH2/UART5_RXD/CAN1_RXD/EBI_nRD/SC1_RST/TM7/INT3/PowerOnSetting
PG7/EPWM1_CH3/UART5_TXD/CAN1_TXD/EBI_nWR/SC1_PWR/TM7_EXT/PowerOnSetting

40 PG0
41 LCM_BLEn_R
42 PG1
43 PG2
44 PG3
45 PG4
46 PG5
47 PG6
48 PG7

PG11/JTAG_TDO/I2S0_MCLK/NAND_RDY1/EBI_nWRH/EBI_nCS1/EBI_AD0
PG12/JTAG_TCK/SW_CLK/I2S0_LRCK/EBI_nWRL/EBI_AD1
PG13/JTAG_TMS/SW_DIO/I2S0_BCLK/EBI_MCLK/EBI_AD2
PG14/JTAG_TDI/I2S0_DI/NAND_nCS1/EBI_ALE/EBI_AD3
PG15/JTAG_nTRST/I2S0_DO/EBI_nCS0/EBI_AD4

50 PG11
51 PG12
52 PG13
53 PG14
54 PG15

PG11~15 for I2S0

PD6/EPWM0_SYNC_IN/I2C0_SDA/I2S0_MCLK/EPWM0_CH0/EBI_AD5
PD7/EPWM0_SYNC_OUT/I2C0_SCL/EPWM0_CH1/EBI_AD6/SC1_nCD/EADC0_ST
PD8/EPWM0_BRAKE0/UART16_nCTS/EPWM0_CH2/EBI_AD7/SC1_CLK/TM0
PD9/EPWM0_BRAKE1/UART16_nRTS/EPWM0_CH3/EBI_AD8/SC1_DAT/TM0_EXT
PD10/EPWM1_BRAKE0/UART16_RXD/EPWM0_CH4/EBI_AD9/SC1_RST/TM2
PD11/EPWM1_BRAKE1/UART16_TXD/EPWM0_CH5/EBI_AD10/SC1_PWR/TM2_EXT

58 PD6
59 PD7
60 UART16_nCTS
61 UART16_nRTS
62 UART16_RXD
63 UART16_TXD

PE14/UART0_TXD
PE15/UART0_RXD

56 UART0_TXD
57 UART0_RXD

VDDIO1
VDDIO1

MA35H04F764C

38 VDDIO1_VDD3V3
64

L52 FB VDD3V3

C85 0.1u C0603
C86 0.1u C0603
C87 10uF C0603

VSS VSS VSS

Note: The VDDIO1 is the input voltage of I/O group 1 and its voltage is 3.3V only.

Power-on Setting

PG0	Secure Boot
L	Secure Boot Enable
H	Secure Boot Disable

PG1	Boot Source QSPI0, SD/eMMC I/O Voltage
L	3.3V
H	1.8V

PG3	PG2	Boot Source
L	L	QSPI0 Flash
L	H	SD/eMMC
H	L	NAND Flash
H	H	USB

PG7	PG6	Booting from QSPI0
L	L	SPI-NAND, 1-bit
H	L	SPI-NOR, 1-bit

PG6	Booting from SD/eMMC
L	SD0/eMMC0 booting
H	SD1/eMMC1 booting

PG7	Booting from SD/eMMC
L	eMMC 4-bit booting
H	Not Supported

PG5	PG4	Booting from NAND
L	L	Ignore
L	H	NAND flash page 2KB
H	L	NAND flash page 4KB
H	H	NAND flash page 8KB

PG7	PG6	Booting from NAND
L	L	Ignore
L	H	BCH T12
H	L	BCH T24
H	H	NO ECC

PG4	Booting from USB
L	USBD booting
H	USBH booting

PG5	Booting from USBH
L	USBH port 0 booting
H	USBH port 1 booting

PG6	Booting from USBH
L	Over-current low-active detect
H	Over-current high-active detect

VDD3V3
R188 0 R0603
N122
R202 R40 R201 R39 R233 R38 R37 R36 10K R0603
SW7
PG0 PG0 N37
PG1 PG1 N38
PG2 PG2 N39
PG3 PG3 N40
PG4 PG4 N41
PG5 PG5 N42
PG6 PG6 N43
PG7 PG7 N44
OFF (Low) ON (High)
SW DIP 8 (SMD)
Internal pull-down

PG11~15 Connect to SWJ(I2S0)

PG11 R372 0 (NC) R0603 JTAG_TDO
R44 0 R0603 I2S0_MCLK
PG12 R370 0 (NC) R0603 JTAG_TCK_SW_CLK
R45 0 R0603 I2S0_LRCK
PG13 R369 0 (NC) R0603 JTAG_TMS_SW_DIO
R46 0 R0603 I2S0_BCLK
PG14 R368 0 (NC) R0603 JTAG_TDI
R47 0 R0603 I2S0_DI
PG15 R371 0 (NC) R0603 JTAG_nTRST
R48 0 R0603 I2S0_DO

PG[7:0] PG[7:0] LCM_BLEn_R
PD[7:6] PD[7:6] UART16_nCTS UART16_nRTS UART16_RXD UART16_TXD
UART0_TXD UART0_RXD
NAND_DATA0 NAND_DATA1 NAND_DATA2 NAND_DATA3 NAND_DATA4 NAND_DATA5 NAND_DATA6 NAND_DATA7 NAND_RDY NAND_nRE NAND_nWE NAND_CLE NAND_ALE NAND_nCS NAND_nWP

J17 HEADER 2x1 (2.54mm, male)
VDD3V3
nRESET SWJ_nRESET
VSS RP1 10K-8P4R

SWJ Connector

VDD3V3
CON12
JTAG_nTRST
JTAG_TDI
JTAG_TMS_SW_DIO
JTAG_TCK_SW_CLK
JTAG_TDO
SWJ_nRESET
N45
C221 10uF C0603
SWJ (JTAG/SWD)簡易牛角

U39 U40 TSOP-6 NSP4201MR6T1G
CH1 CH4 Vn Vp CH2 CH3
VSS VSS
L38 FB VSS

SWD Connector

J14 VDD3V3
1
JTAG_TMS_SW_DIO
JTAG_TCK_SW_CLK
SWJ_nRESET
VSS
HEADER 5x1 (2.54mm, male)

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Title	NuMaker-HMI-MA35H04F70 (LQFP216)	
Size B	Document Number 04. Power On Setting (VDDIO1)	Rev V1.0
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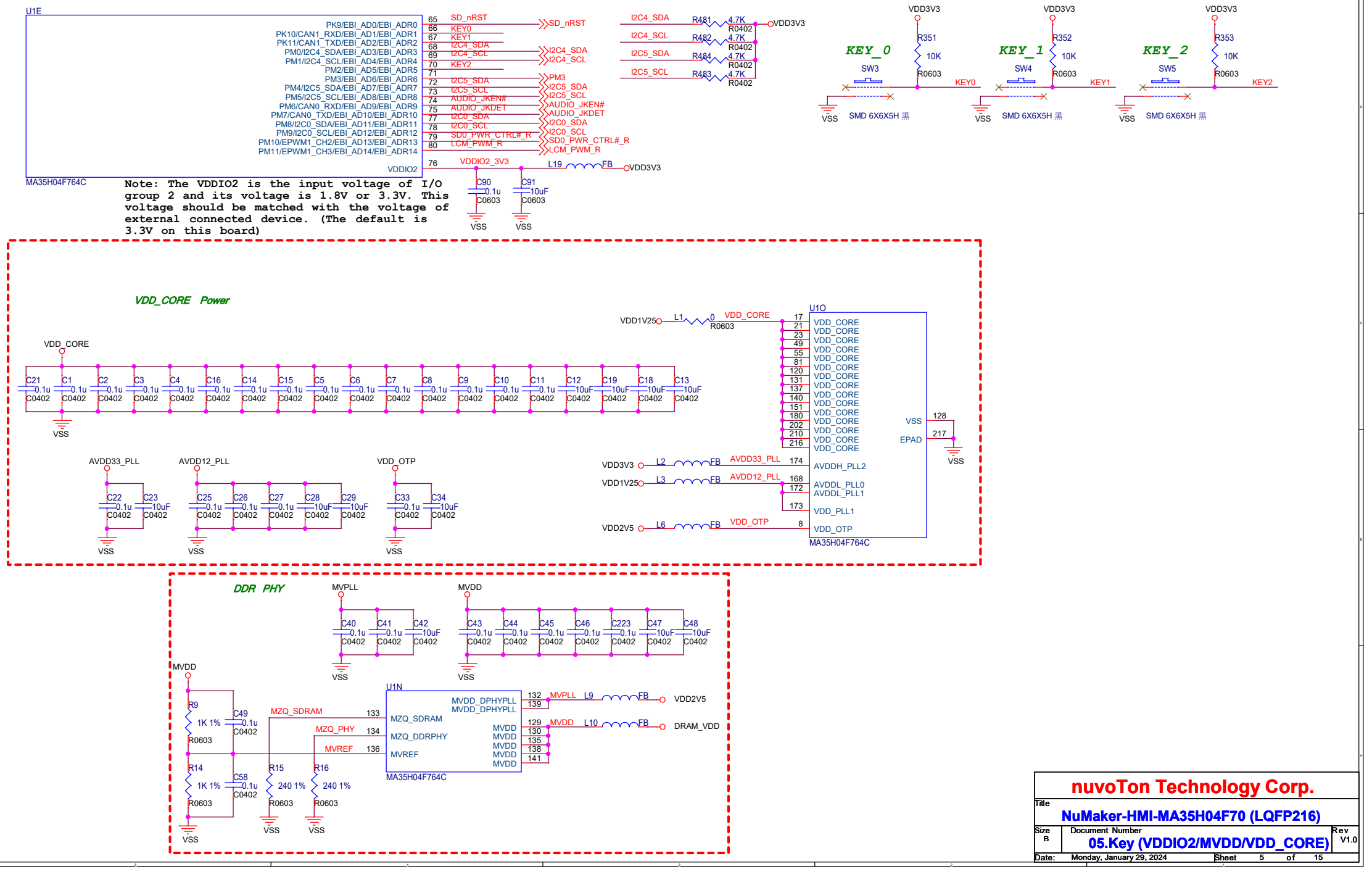

nuvoTon Technology Corp.		
Title: NuMaker-HMI-MA35H04F70 (LQFP216)		
Size: B	Document Number: 05.Key (VDDIO2/MVDD/VDD_CORE)	Rev: V1.0
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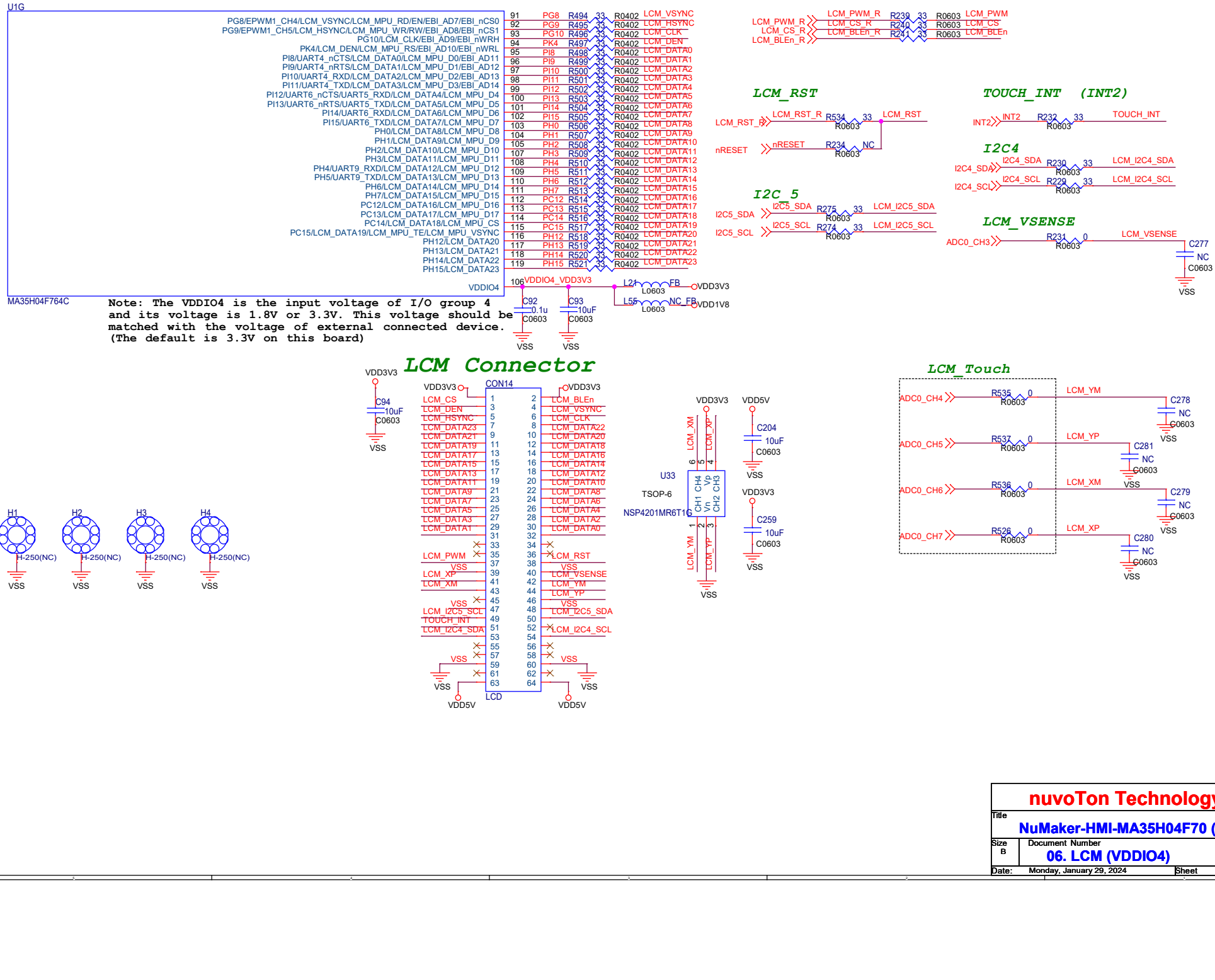
U1G
MA35H04F764C
PG8/EPWM1_CH4/LCM_VSYNC/LCM_MPU_RD/EN/EBI_AD7/EBI_nCS0
PG9/EPWM1_CH5/LCM_HSYNC/LCM_MPU_WR/RW/EBI_AD8/EBI_nCS1
PG10/LCM_CLK/EBI_AD9/EBI_nWRH
PK4/LCM_DEN/LCM_MPU_RS/EBI_AD10/EBI_nWRL
PI8/UART4_nCTS/LCM_DATA0/LCM_MPU_D0/EBI_AD11
PI9/UART4_nRTS/LCM_DATA1/LCM_MPU_D1/EBI_AD12
PI10/UART4_RXD/LCM_DATA2/LCM_MPU_D2/EBI_AD13
PI11/UART4_TXD/LCM_DATA3/LCM_MPU_D3/EBI_AD14
PI12/UART6_nCTS/UART5_RXD/LCM_DATA4/LCM_MPU_D4
PI13/UART6_nRTS/UART5_TXD/LCM_DATA5/LCM_MPU_D5
PI14/UART6_RXD/LCM_DATA6/LCM_MPU_D6
PI15/UART6_TXD/LCM_DATA7/LCM_MPU_D7
PH0/LCM_DATA8/LCM_MPU_D8
PH1/LCM_DATA9/LCM_MPU_D9
PH2/LCM_DATA10/LCM_MPU_D10
PH3/LCM_DATA11/LCM_MPU_D11
PH4/UART9_RXD/LCM_DATA12/LCM_MPU_D12
PH5/UART9_TXD/LCM_DATA13/LCM_MPU_D13
PH6/LCM_DATA14/LCM_MPU_D14
PH7/LCM_DATA15/LCM_MPU_D15
PC12/LCM_DATA16/LCM_MPU_D16
PC13/LCM_DATA17/LCM_MPU_D17
PC14/LCM_DATA18/LCM_MPU_CS
PC15/LCM_DATA19/LCM_MPU_TE/LCM_MPU_VSYNC
PH12/LCM_DATA20
PH13/LCM_DATA21
PH14/LCM_DATA22
PH15/LCM_DATA23
VDDIO4
Note: The VDDIO4 is the input voltage of I/O group 4 and its voltage is 1.8V or 3.3V. This voltage should be matched with the voltage of external connected device. (The default is 3.3V on this board)
LCM_RST
TOUCH_INT (INT2)
I2C4
I2C_5
LCM_VSENSE
LCM Connector
LCM_Touch
CON14
LCD
U33
TSOP-6
NSP4201MR6T1G
H1
H2
H3
H4
H-250(NC)
VDD3V3
VDD5V
VSS
nuvoTon Technology Corp.
Title
NuMaker-HMI-MA35H04F70 (LQFP216)
Size B
Document Number
06. LCM (VDDIO4)
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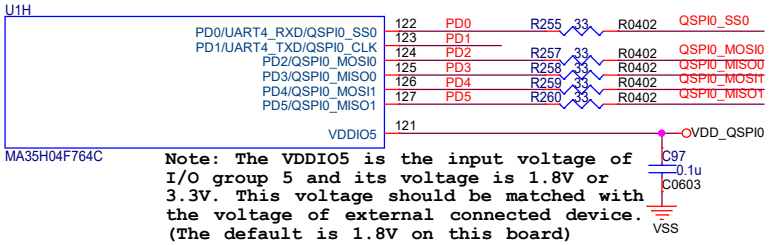
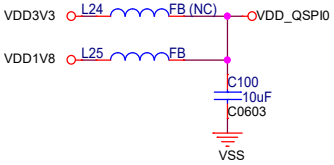
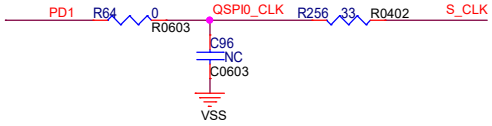
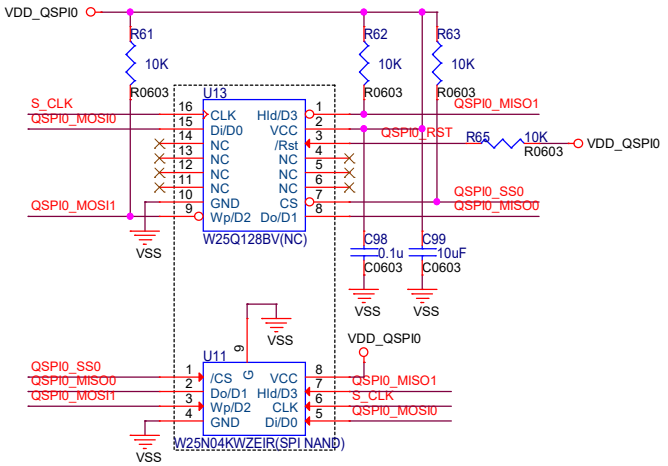
QSPI0_Flash



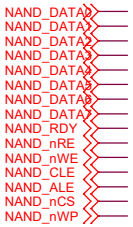
Note: The VDDIO5 is the input voltage of I/O group 5 and its voltage is 1.8V or 3.3V. This voltage should be matched with the voltage of external connected device. (The default is 1.8V on this board)

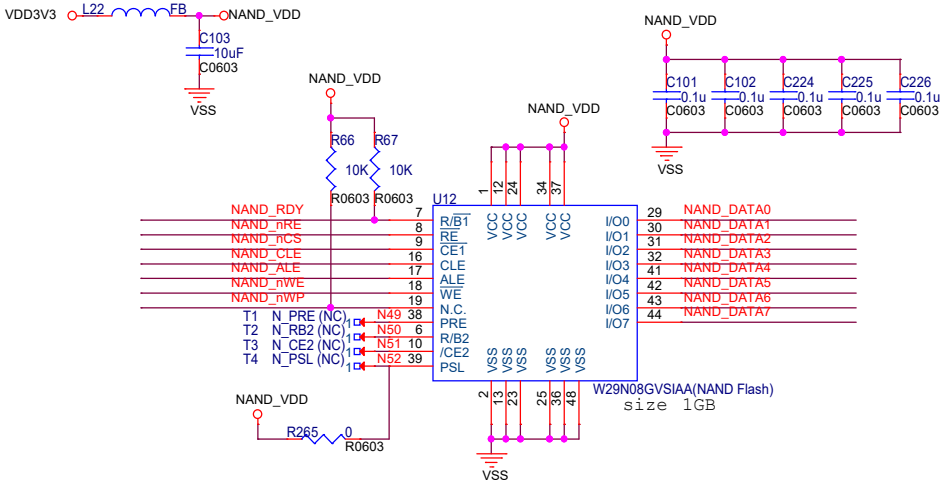






NAND_Flash





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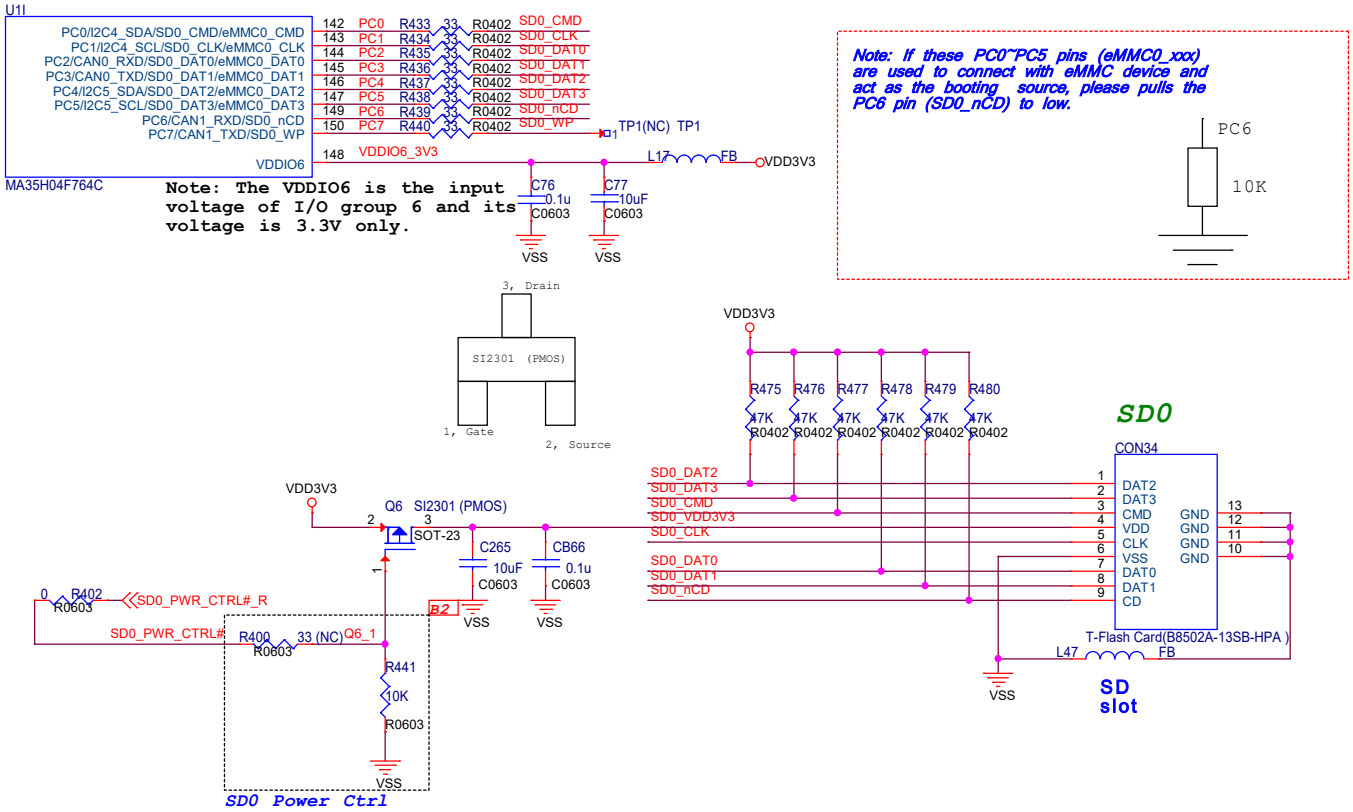

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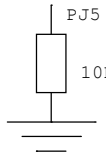
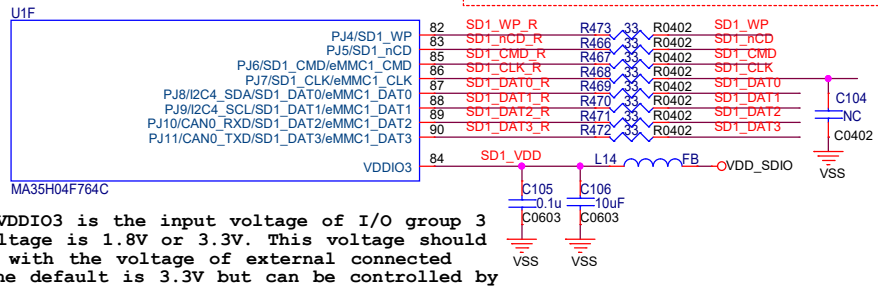
Note: If these PJ6~PJ11 pins (eMMC1_xxx) are used to connect with eMMC device and act as the booting source, please pulls the PJ5 pin (SD1_nCD) to low.



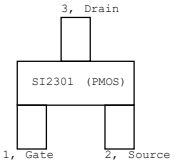


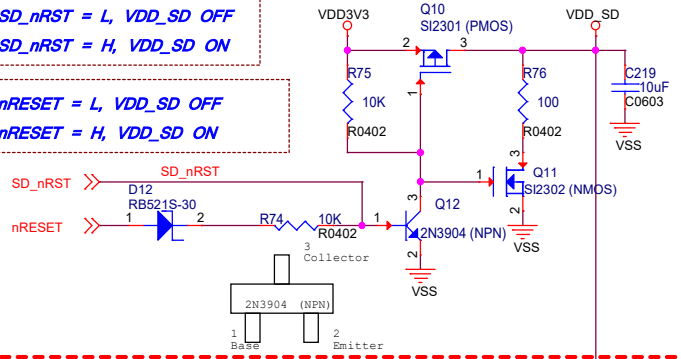
Note: The VDDIO3 is the input voltage of I/O group 3 and its voltage is 1.8V or 3.3V. This voltage should be matched with the voltage of external connected device. (The default is 3.3V but can be controlled by GPIO PN11 high or low state that follows the SD3.0 timing on this board)

For SD card compatibility

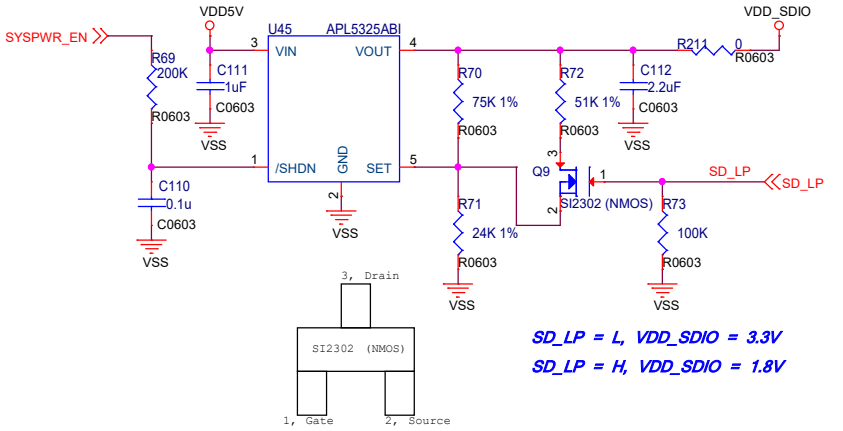
SD_nRST = L, VDD_SD OFF
SD_nRST = H, VDD_SD ON

nRESET = L, VDD_SD OFF
nRESET = H, VDD_SD ON

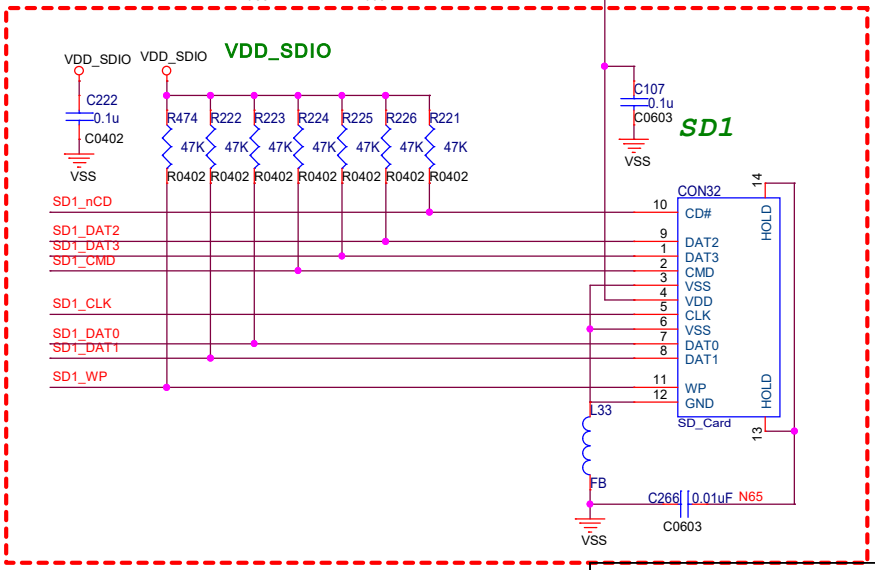




SDIO (3.3V & 1.8V)



SD_LP = L, VDD_SDIO = 3.3V
SD_LP = H, VDD_SDIO = 1.8V



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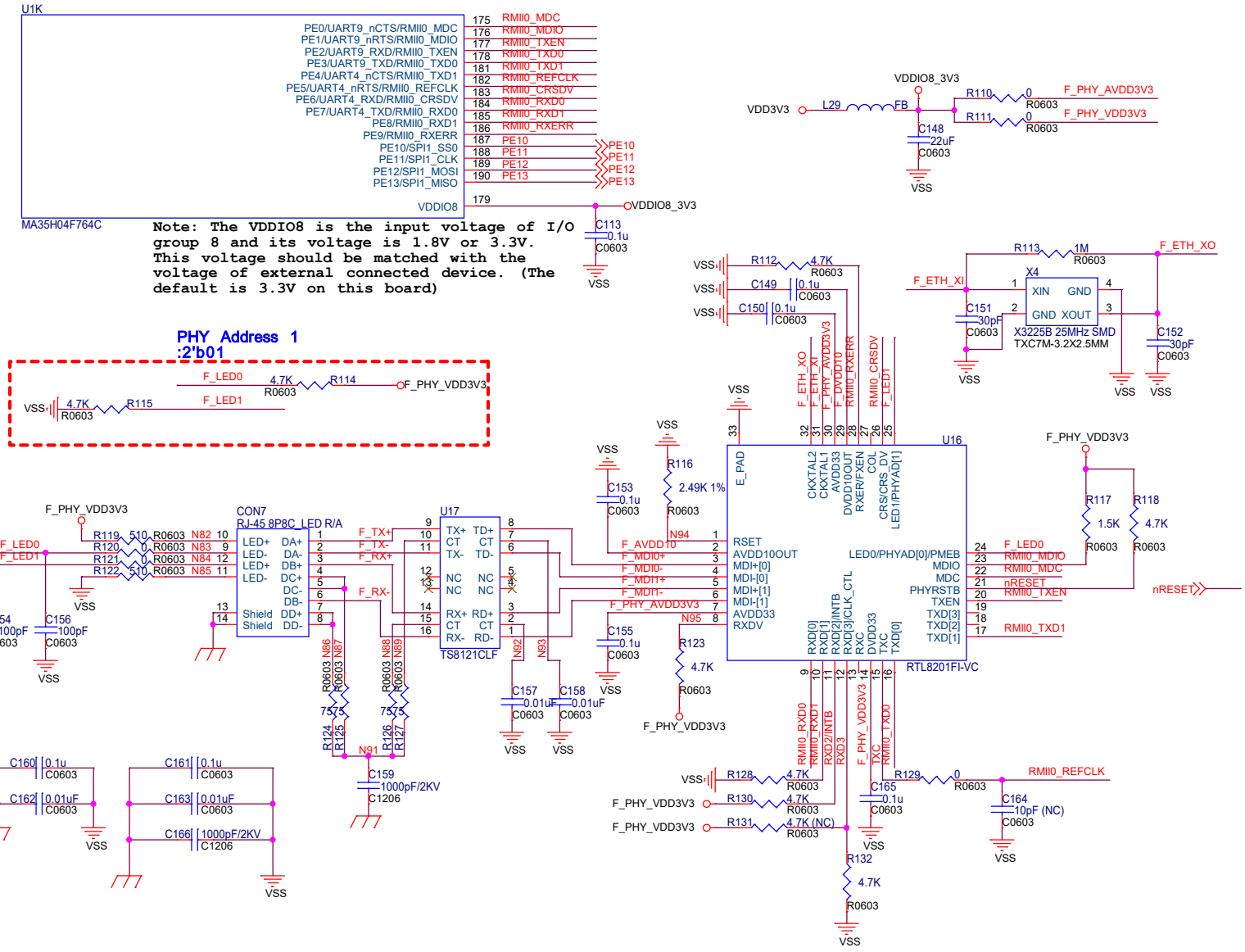

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Title	NuMaker-HMI-MA35H04F70 (LQFP216)		
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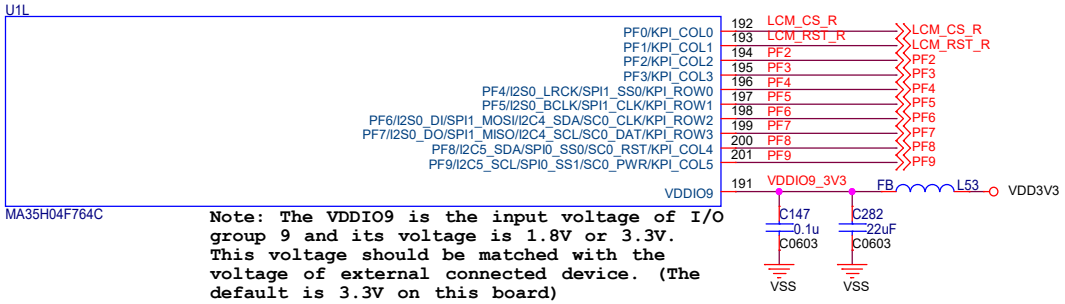
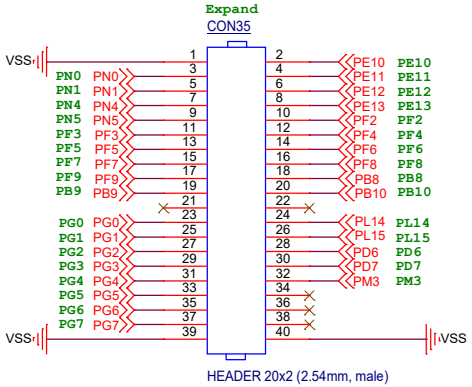


Note: The VDDIO9 is the input voltage of I/O group 9 and its voltage is 1.8V or 3.3V. This voltage should be matched with the voltage of external connected device. (The default is 3.3V on this board)



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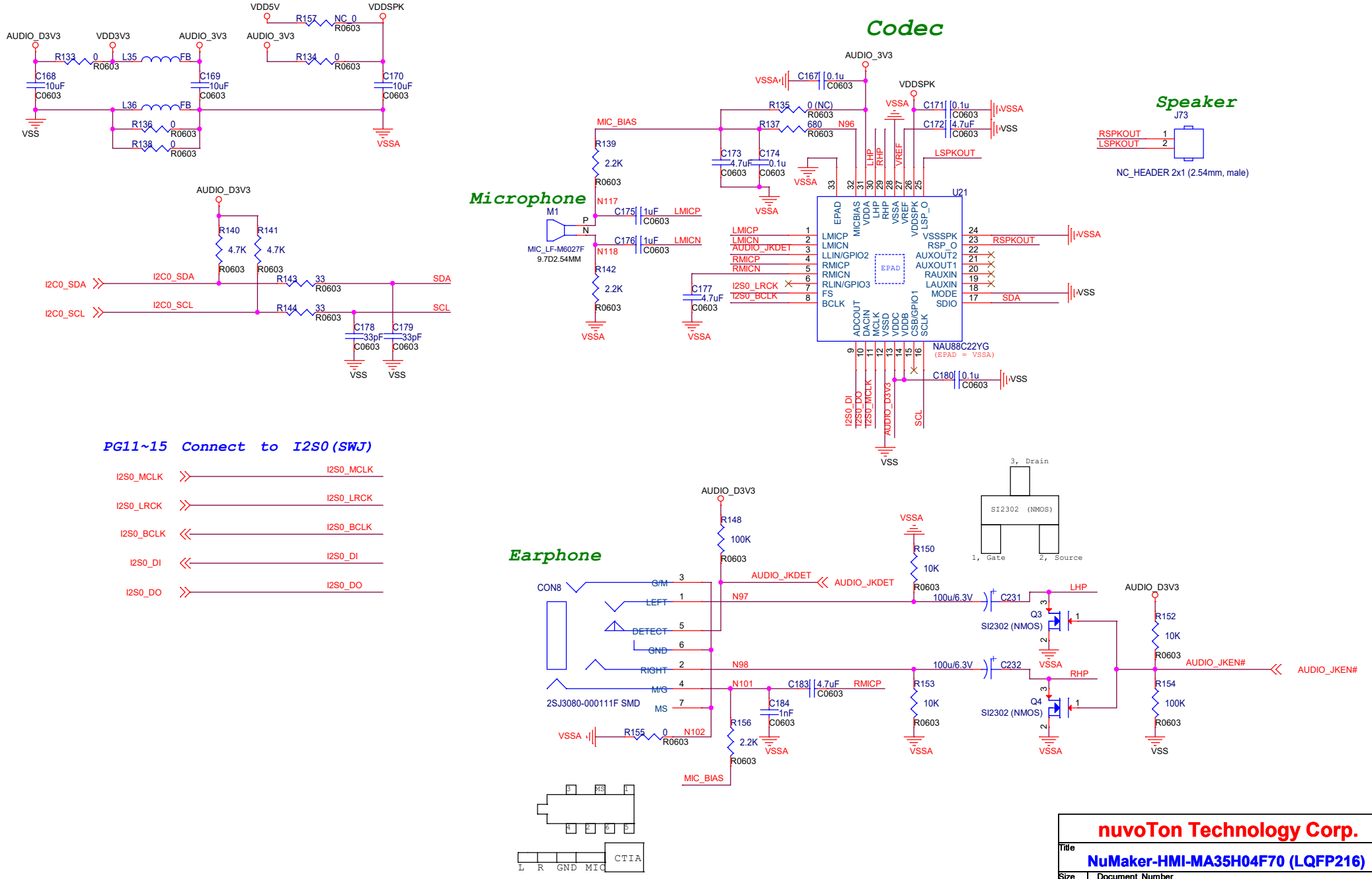
Codec
Speaker
Microphone
Earphone
PG11~15 Connect to I2S0(SWJ)
NAU88C22YG
(EPAD = VSSA)
NC_HEADER 2x1 (2.54mm, male)
MIC_LF-M6027F
9.7D2.54MM
2SJ3080-000111F SMD
SI2302 (NMOS)
CTIA
L R GND MIC
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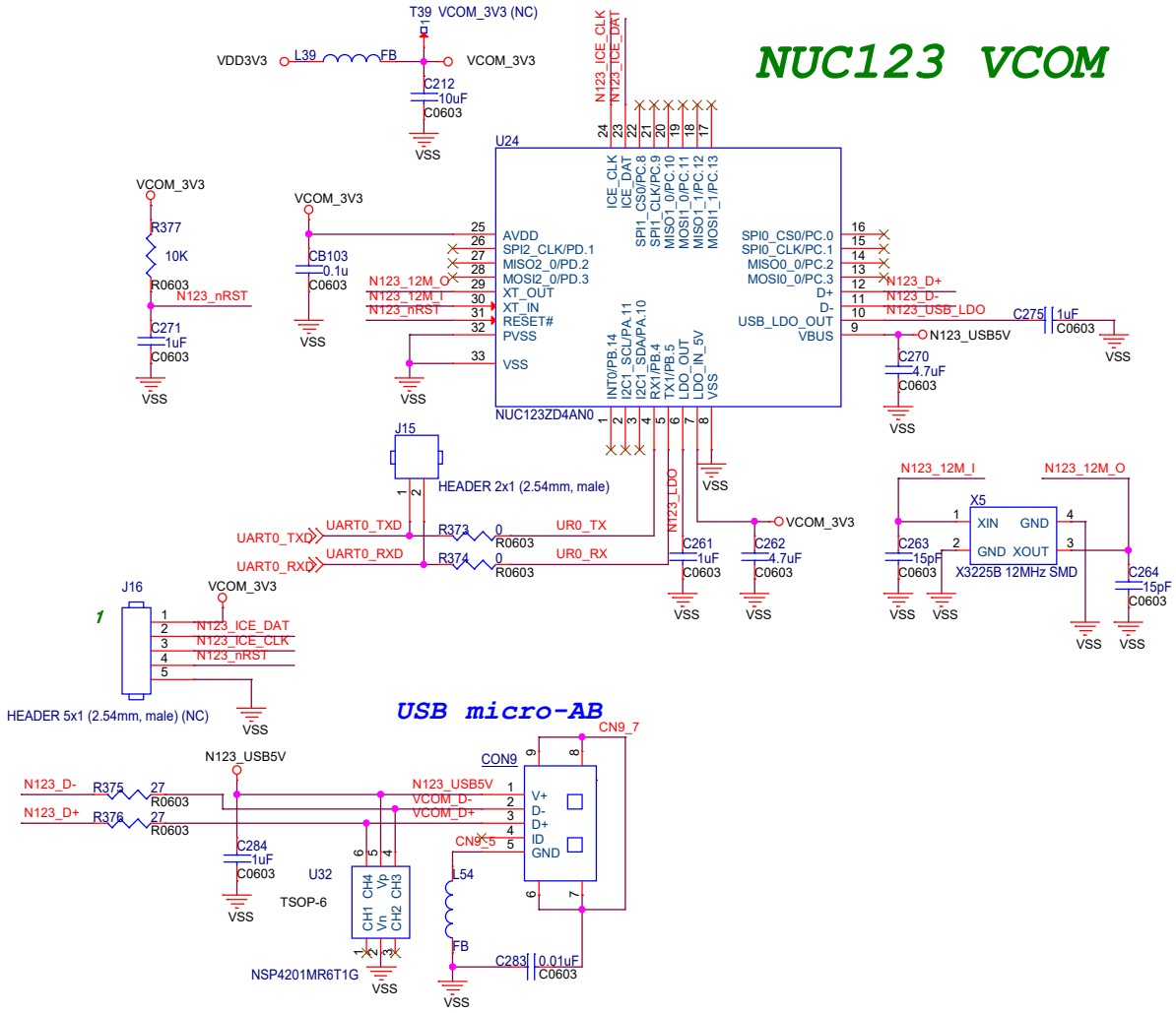

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Title: NuMaker-HMI-MA35H04F70 (LQFP216)		
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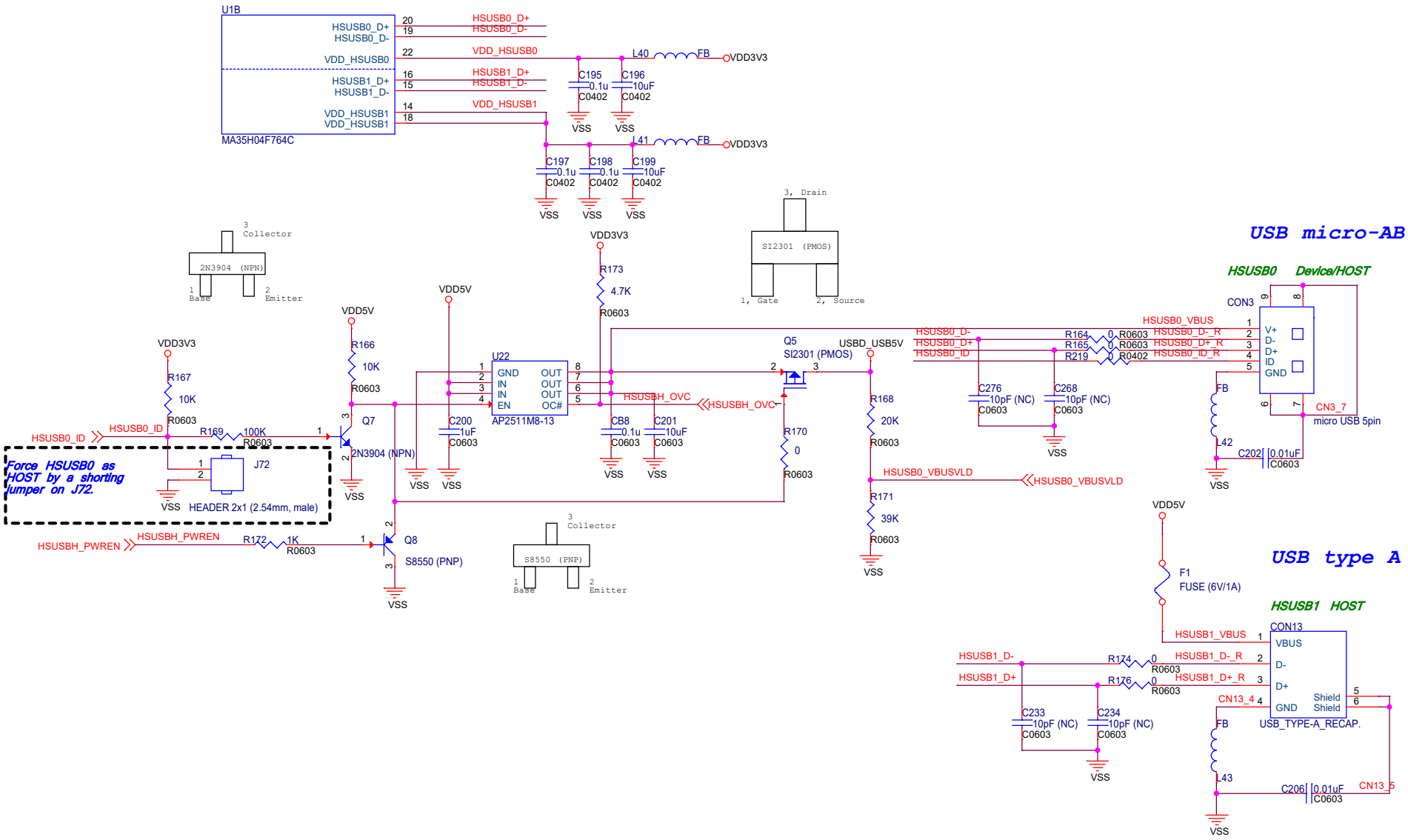

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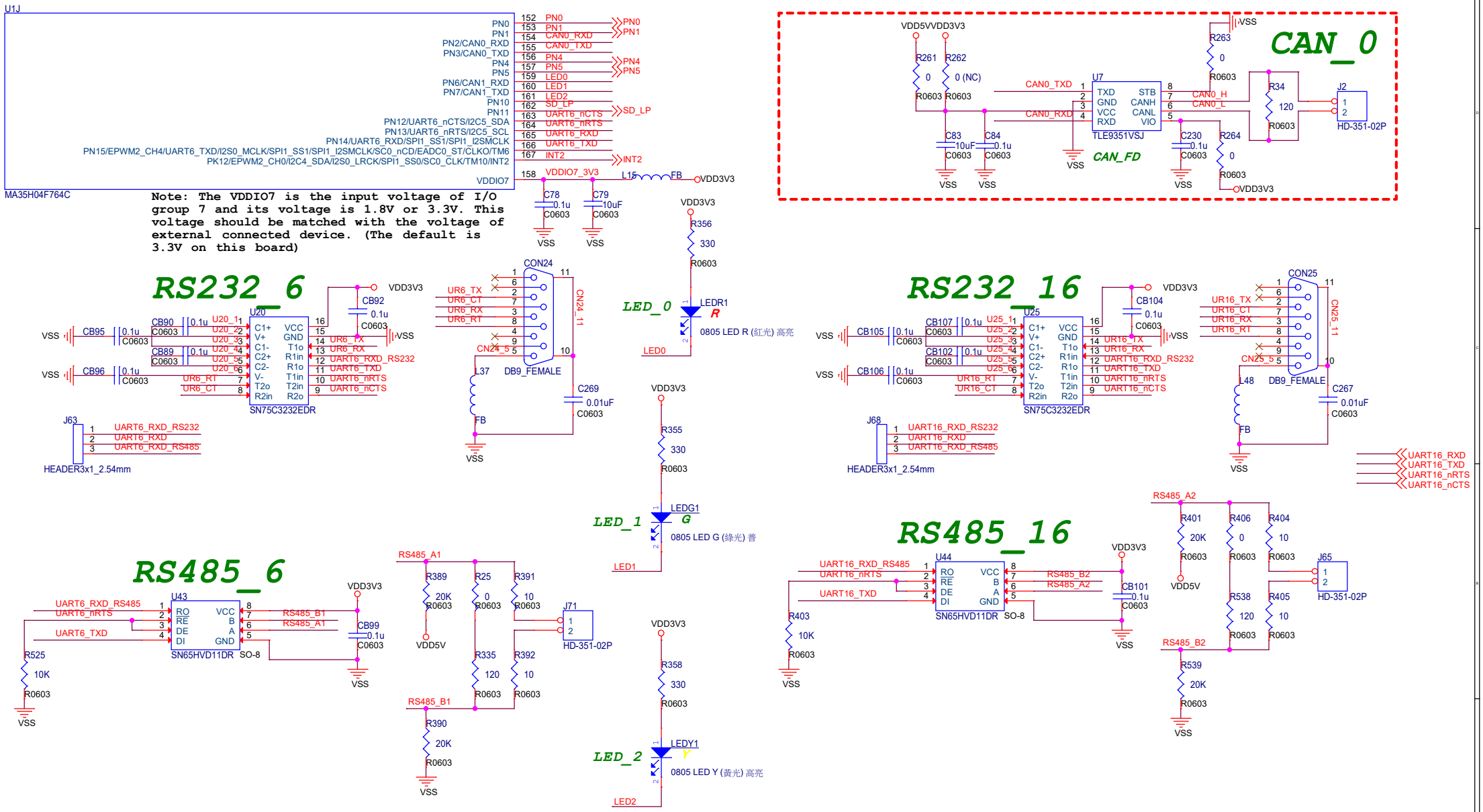

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